BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple In Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRB 5-14: Providing and constructing Precast concrete solid blocks with compressive strenght not less than 35Kg/sqm with cement mortar 1:4 masonry (quion, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms confirming to IS:2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing etc., complete as per specifications. (P.No.25, I.No.5.27.1 of PW,P&IWTD SR 2018-19)								
	Ground Floor	Sqm							
	For Dhyana Mandira Allround Parapet		2	37.25	--	1.00	74.50		
			2	20.10	--	0.80	32.16		
			1	11.15	--	1.00	11.15		
	For Hand Wash Area		1	7.00	--	0.60	4.20		
			2	5.00	--	0.60	6.00		
							128.01	995.00	**127370.00**
2	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 (P.No.23, I.No.5.9 of PW, P&IWTD SR 2018-19)								
	For Dhyana Mandira	Cum							
	Front steps		2	1	1.90	4.50	0.45	7.70	
			2	2	4.40	0.45	0.40	3.17	
								10.86	5981.00	**64972.00**
3	KSRB-4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/ (P.No.12, I.No.4.6 of PW,P&IWTD SR 2018-19)								
	Hand Wash Area	Cum	1	10.00	5.00	0.15	7.50		
	For Walls		1	8.00	0.30	0.15	0.36		
			2	5.00	0.30	0.15	0.45		
							8.31	5914.00	**49145.00**
4	KSRB 15-3.9: Providing 18mm thick cement plaster in single coat with cement mortor 1:3, to brick masonry including rounding off corners wherver required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No.114, I.No.15.15 of PW,P&IWTD SR 2018-19)								
	External wall plastering	Sqm							
	For Dhyana Mandira Allround Parapet		2	37.25	--	1.00	74.50		
			2	20.10	--	0.80	32.16		
			1	11.15	--	1.00	11.15		
							117.81	301.00	**35461.00**
5	KSRB 15.3.4 Providing 15m thick cement plaster in single coat with cement mortar 1:4,tobrick masonry including rounding off corners wherever reuired smooth rendering, Providing and removing scaffolding, including cost of materials, labour. Curing complete as per specifications. (P.No.112, I.No.15.13 of PW,P&IWTD SR 2018-19)								
	Internal wall plastering	Sqm							
	For Dhyana Mandira								
	Front Satge		1	7.90	--	0.90	7.11		
			2	3.50	--	0.90	6.30		
			2	0.90	--	0.65	1.17		
			2	0.90	--	0.45	0.81		
			2	0.90	--	0.30	0.54		
			2	0.90	--	0.15	0.27		
			1	4.40	--	0.90	3.96		
	Front Satge 2		2	2.90	--	0.90	5.22		

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
			2	0.80	--	0.65	1.04		
			2	0.80	--	0.45	0.72		
			2	0.80	--	0.30	0.48		
			2	0.80	--	0.15	0.24		
							27.86	241.00	**6714.00**
6	KSRB 15-3.14: Providing 12mm thick cement plaster in single coat with cement mortor 1:4, to ceiling including rounding off corners wherver required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. (P.No.114, I.No.15.22 of PW,P&IWTD SR 2018-19)								
	Saibaba Hall	Sqm	1	30.70	10.80	--	331.56		
			1	4.50	8.90	--	40.05		
	Narayana Hall		1	19.80	10.70	--	211.86		
			1	4.50	8.90	--	40.05		
							623.52	245.00	**152762.00**
7	Providing and laying flooring using prepolished water cut/gang saw 19 mm thick Granite laid over bed of 20mm thick 1:4 and jointed with neat cement slurry mixed with pigment of mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete. using black granite/ Multy Red / Ruby Red/ Black / Hassan Green Granite of width not less than 900mm (P.No.107, I.No.14.47.2 of PW,P&IWTD SR 2018-19)								
		Sqm							
	Front step	2	1	1.90	4.50	--	17.10		
	Treds	2	2	4.40	0.30	--	5.28		
	Riser	2	2	4.40	0.20	--	3.52		
	Skirting	2	1	3.80	0.10	--	0.76		
	For windows					--			
	Saibaba Hall	5	2	1.50	0.20	--	3.00		
		5	1	2.00	0.05	--	0.50		
		1	2	1.50	0.20	--	0.60		
		1	1	2.40	0.05	--	0.12		
	Narayana Hall	3	2	1.50	0.20	--	1.80		
		3	1	2.00	0.05	--	0.30		
		1	2	1.50	0.20	--	0.60		
		1	1	2.40	0.05	--	0.12		
	For Column Skirting								
	Dhyana Mandira		2	3.50	--	0.10	0.70		
			2	3.95	--	0.10	0.79		
			2	4.70	--	0.10	0.94		
			18	0.65	0.10	--	1.17		
	For Hand Wash Area Walls	2	1	8.00	--	0.45	7.20		
		2	2	5.00	--	0.45	9.00		
	Wall Top		1	18.00	0.20	--	3.60		
							57.10	2627.00	**150002.00**
8	Providing vitrified tiles 1000 x 1000mm /800x1200mm of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification 14.45.1 (Data Approved rate)								
	Ground Floor	Sqm							
	Saibaba Hall		1	30.70	10.80	--	331.56		
			1	8.90	4.00	--	35.60		
	Narayana Hall		1	19.80	10.80	--	213.84		
			1	8.90	4.00	--	35.60		
	Skirting		1	167.00	--	0.10	16.70		
							633.30		
						Say	**633.30**	2924.00	**1851769.00**

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
9	KSRB 14.15-1: Providing marble slab flooring 20mm thick with edges of slab machine cut, for flooring, treads of steps and landings laid on a bed of 25mm thick cement mortar 1:6 mix, to line and level, jointed with cement slurry curing, rubbing, polishing complete finishing with flush pointing using white cement including cost of materials, HOM of machineries, labour, curing complete as per specifications. (P.No.108, I.No.14.37 of PW,P&IWTD SR 2018-19)								
	Ground Floor	Sqm							
	For stage								
	Saibaba Hall								
			1	7.90	3.50	--	27.65		
			1	7.90	1.50	--	11.85		
		2	5	0.90	0.30	--	2.70		
		2	5	0.90	0.15	--	1.35		
	Narayana Hall		1	4.40	2.90	--	12.76		
			1	4.40	1.50	--	6.60		
		2	5	0.80	0.30	--	2.40		
		2	5	0.80	0.15	--	1.20		
							66.51	3907.00	**259855.00**
10	Providing and fixing in position 12mm thick plaster of paris (gypsum anhydrous) for ceiling reinforced with hessian cloth flat surface upto a height of 5m above floor level over aluminium 25mm/6mm with 10mm gap in between and reinforced with rabbit wire mesh fixed to metal frames ncluding cost of materials,labour,curing complete as per specification								
	Ground Floor	Sqm							
	Saibaba Hall								
	Inside Hall		1	30.80	10.70	--	329.56		
	Inside Hall		1	4.58	8.83	--	40.44		
	Inside vertical		1	10.70	0.76	--	8.13		
	Inside vertical		1	8.83	0.15	--	1.32		
	Inside Cornice		2	41.50	0.15	--	12.45		
	Vertical		2	13.41	0.15	--	4.02		
			1	4.42	0.15	--	0.66		
	Portico		1	4.28	1.86		7.96		
	Narayana Hall								
	Inside Hall		1	10.70	19.78	--	211.65		
	Inside Hall		1	4.58	8.80	--	40.30		
	Portico		1	4.32	1.86	--	8.04		
	Vertical		1	8.79	0.15	--	1.32		
	Garder		2	6.09	1.00	--	12.18		
	Corner		2	29.00	0.15	--	8.70		
			2	4.58	0.15	--	1.37		
			1	14.22	0.15		2.13		
							690.25		
						Say	**690.30**	1273.00	**878752.00**
11	KSRB 15-5.1: Providing rough plastering 15mm thick in single coat with cement mortor 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No.114, I.No.15.30 of PW,P&IWTD SR 2018-19)								
	Hand Wash Area	Sqm	2	8.00	--	0.45	7.20		
			4	5.00	--	0.45	9.00		
							16.20	224.00	**3629.00**
12	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, labour, curing complete as per specifications. Specification No. KBS 14.26 .(P.No.103, I.No.14.4 of PW,P&IWTD SR 2018-19)								
	Hand Wash Area	Sqm	1	10.00	5.00	--	**50.00**	3535.00	**176750.00**

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
13	Providing Full nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work,HOM of equipment etc., complete as per specification1 (P.No.108, I.No.14.55 of PW,P&IWTD SR 2018-19)								
	For Window	Mtr	5	5.00	--	--	25.00		
			1	5.40	--	--	5.40		
			3	5.00	--	--	15.00		
			1	5.40	--	--	5.40		
	For Columns		2	3.50	--	--	7.00		
			2	3.95	--	--	7.90		
			2	4.70	--	--	9.40		
			18	0.65	--	--	11.70		
							86.80	295.00	**25606.00**
14	KSRB 9.4-1 : Providing teak wood frames of doors, windows, clerestory windows, ventilators, and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 (P.No.51, I.No.9.10. of PW,P&IWTD SR 2018-19)								
	Ground Floor	Cum							
	ED		2	2	2.80	0.25	0.15	0.42	
			2	2	0.25	0.15	2.40	0.36	
								0.78	198612.00	**154917.00**
15	KSRB 9.5-1: Providing and fixing in position fully panelled teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures).Specification No.9.34. (P.No.53, I.No.9.14 of PW,P&IWTD SR 2018-19)								
	For Dhyana Mandira								
	ED	Nos	2	2.80	--	2.40	**13.44**	8844.00	**118863.00**
16	Providing & fixing of glazed 2 Track-2 Panel Sliding Windows made out of multi Chamered uPVC section with TPV gaskets having isolated drainage and reinforced with Galvanized iron profiles through out the window .The outer frame having a overall size of 60x45 mm with reinforcement of 1mm thickness and sash with overall size 39x58 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 20x18mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame & sash shall be 2-2.2mm (P.No.301, I.No.38.44.1 of PW,P&IWTD SR 2018-19)								
	Ground Floor	Sqm							
	W		1	2.00	--	1.50	3.00		
							3.00		
						Say	**3.00**	3301.00	**9903.00**
17	KSRB 9-27.1 : Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50m. including cost of materials, labour charges, complete as per Specification. (P.No.57, I.No.9.80. of PW,P&IWTD SR 2018-19)								
	Ground Floor	Nos							
	ED		2	--	--	--	**2.00**	1490.00	**2980.00**
18	KSRB - 7.9: Providing and fixing M.S.grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifictions. Specification No. KBS 7.12 (P.No.32, I.No.7.9 of PW, P&IWTD SR 2018-19)								
	W	Kg	1	2.00	--	1.50	3.00		
							3.00		
	Cosider weight 21kg/sqm		--	--	--	--	63.00		
						Say	**63.00**	104.00	**6552.00**

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
19	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications (P.No.57, I.No.15.60.1. of PW,P&IWTD SR 2018-19)								
	ED	Sqm	2	2.80	--	2.40	**13.44**	106.00	**1425.00**
20	KSRB 15-18.2: Providing and applying enamel metal paint two coats (Excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materails, labour, complete as per specifications.(P.No.121 I.No.15.74 of PW, P&IWTD S.R 2018-19)								
	For Window Grill Painting								
	Ground Floor	Sqm							
	Building 1								
	W		5	2.00	--	1.50	15.00		
	W1		1	2.40	--	1.50	3.60		
	Building 2								
	W		3	2.00	--	1.50	9.00		
	W1		1	2.40	--	1.50	3.60		
							31.20		
						Say	**31.20**	104.00	**3245.00**
21	KSRB 10-2: Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junction of walls and slabs, (c) after two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 3000x300mm square, (e) the whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications. (P.No.68, I.No.10.2 of PW, P&IWTD S.R 2018-19)								
	For Dhyana Mandira								
	Roof	Sqm	1	30.70	10.80	--	331.56		
			1	4.50	8.90	--	40.05		
			1	19.80	10.70	--	211.86		
			1	4.50	8.90	--	40.05		
							623.52	1097.00	**684001.00**
22	Providing and laying in position Yelahanka tiles of size 250 x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of materials, labour complete as per specifications. (P.No.68, I.No.10.1 of PW, P&IWTD S.R 2018-19)								
	For Dhyana Mandira								
	Roof	Sqm	1	30.70	10.80	--	331.56		
			1	4.50	8.90	--	40.05		
			1	19.80	10.70	--	211.86		
			1	4.50	8.90	--	40.05		
							623.52	1067.00	**665296.00**
	Electrical								

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
23	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials a) Short point upto 3.0M from tapping point to outlet via switch box								
	I.No 2.1.1 P.No 5 EW SR 2019-20	Each	30				30.00	202.00	6060.00
24	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials b) Medium point above 3.0M upto 6.0M from tapping point to outlet via switch box								
	I.No 2.1.2 P.No 5 EW SR 2019-20	Each	45				45.00	278.00	12510.00
25	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials c) Long point above 6.0M upto 10.0M from tapping point to outlet via switch box								
	I.No 2.1.3 P.No 5 EW SR 2019-20	Each	70				70.00	404.00	28280.00
26	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials d) Two outlet in a row, above 3.0M upto 6.0M from tapping point to outlet via switch box								
	I.No 2.1.4 P.No 5 EW SR 2019-20	Each	40				40.00	530.00	21200.00
27	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials e) Three outlet in a row, above 6.0M upto 10.0M from tapping point to outlet via switch box								
	I.No 2.1.5 P.No 5 EW SR 2019-20	Each	15				15.00	758.00	11370.00
28	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall c) 6 Ways								
	I.No 3.4.3 P.No 9 EW SR 2019-20	Each	40				40.00	126.00	5040.00
29	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall								
	I.No 3.4.4 P.No 9 EW SR 2019-20	Each	40				40.00	146.00	5840.00

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
30	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C.wall a) 10-12Way								
	I.No 3.4.5 P.No 9 EW SR 2019-20	Each	40				40.00	167.00	6680.00
31	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. b) 4Module								
	I.No 3.5.2 P.No 9 EW SR 2019-20	Each	45				45.00	126.00	5670.00
32	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. d) 8Module								
	I.No 3.5.4 P.No 9 EW SR 2019-20	Each	45				45.00	202.00	9090.00
33	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. e) 10-12 Module								
	I.No 3.5.5 P.No 9 EW SR 2019-20	Each	30				30.00	232.00	6960.00
34	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box. f) 16-18 Module								
	I.No 3.5.6 P.No 9 EW SR 2019-20	Each	45				45.00	273.00	12285.00
35	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one Way								
	I.No 3.6.1 P.No 10 EW SR 2019-20	Each	250				250.00	71.00	17750.00
36	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 12936Amps Two way								
	I.No 3.6.2 P.No 10 EW SR 2019-20	Each	300				300.00	96.00	28800.00
37	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 6Amps 3way socket								
	I.No 3.6.3 P.No 10 EW SR 2019-20	Each	92				92.00	106.00	9752.00
38	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. d) Steeped fan Regulator								
	I.No 3.6.4 P.No 10 EW SR 2019-20	Each	65				65.00	293.00	19045.00
39	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.e) 16Amps one way switch								
	I.No 3.6.8 P.No 10 EW SR 2019-20	Each	45				45.00	116.00	5220.00
40	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 f) 6Amps Bell push								
	I.No 3.6.9 P.No 10 EW SR 2019-20	Each	65				65.00	97.00	6305.00

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
41	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 g) 6/16Amps universal socket								
	I.No 3.6.11 P.No 10 EW SR 2019-20	Each	75				75.00	164.00	12300.00
42	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 h) TV/Telephone socket								
	I.No 3.6.12 P.No 10 EW SR 2019-20	Each	45				45.00	80.00	3600.00
43	Supply and fixing of 6Amps bell buzzer on existing switch board.								
	I.No 3.14.8 P.No 11 EW SR 2019-20	Each	1				1.00	115.00	115.00
44	OPEN Conduit System:Supplying following size heavy guage PVC conduit pipe confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plug in case of brick wall and cement plastering the damaged portion using heavy gaguge saddles at an interval of 700 mm using N F								
	I.No 1.1.1 P.No 2 EW SR 2019-20	Each	900				900.00	51.00	45900.00
45	OPEN Conduit System:Supplying following size heavy guage PVC conduit pipe confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plug in case of brick wall and cement plastering the damaged portion using heavy gaguge saddles at an interval of 700 mm using N F screws . b) 25mm dia 2mm thick								
	I.No 1.1.2 P.No 2 EW SR 2019-20	Each	800				800.00	66.00	52800.00
46	OPEN Conduit System:Supplying following size heavy guage PVC conduit pipe confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plug in case of brick wall and cement plastering the damaged portion using heavy gaguge saddles at an interval of 700 mm using N F screws . c) 32mm dia 2.5mm thick								
	I.No 1.1.3 P.No 2 EW SR 2019-20	Each	350				350.00	93.00	32550.00
47	CONCEALED Conduit System: Supplying heavy gauge pvc conduit pipe ...dia...mm thick with suitable size bends, metal Junction boxes adhesive paste etc..,by groove cutting in the wall and fixing by bracing U & J hooks and Cement plasteriing upto the wall surface and run wirh 18 SWG GI fish wire run throughout the conduit where ever necessary. 19/ 20 mm dia 2mm thick								
	I.No 1.2.1 P.No 2 EW SR 2019-20	Each	550				550.00	40.00	22000.00
48	CONCEALED Conduit System: Supplying heavy gauge pvc conduit pipe ...dia...mm thick with suitable size bends, metal Junction boxes adhesive paste etc..,by groove cutting in the wall and fixing by bracing U & J hooks and Cement plasteriing upto the wall surface and run wirh 18 SWG GI fish wire run throughout the conduit where ever necessary. 25 mm dia 2mm thick								
	I.No 1.2.2 P.No 2 EW SR 2019-20	Mtr	350				350.00	54.00	18900.00
49	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A. b) 1.5samm								
	I.No 2.3.2 P.No 5 EW SR 2019-20	Each	5000				5000.00	21.00	105000.00

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
50	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A. b) 2.5sqmm								
	I.No 2.3.3 P.No 6 EW SR 2019-20	Each	3500				3500.00	33.00	115500.00
51	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A. c) 4sqmm								
	I.No 2.3.4 P.No 6 EW SR 2019-20	Each	2200				2200.00	45.00	99000.00
52	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A. e) 16sqmm								
	I.No 2.3.7 P.No 6 EW SR 2019-20	Each	206				206.00	190.00	39140.00
53	Supplying and fixing regular MCCB distribution Panel confirm to IS 8828, on wall/ woodboard / flush mounting using required clamps,bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with neccesary busbar completely wired to use on 440Volts 3Phase 4wire powder coated painting etc., complete with a provision for fixing of single /three phase suitable capacity MCCB/MCB as outgoings confirm to IS8828. 8Way								
	I.No 5.16.2 P.No 27 EW SR 2019-20	Each	4				4.00	8888.00	35552.00
54	Supplying and fixing regular MCCB distribution Panel confirm to IS 8828, on wall/ woodboard / flush mounting using required clamps,bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with neccesary busbar completely wired to use on 440Volts 3Phase 4wire powder coated painting etc., complete with a provision for fixing of single /three phase suitable capacity MCCB/MCB as outgoings confirm to IS8828. 12Way								
	I.No 5.16.3 P.No 27 EW SR 2019-20	Each	1				1.00	11514.00	11514.00
55	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic/micro processor release and earth fault as per IS -13947 (Icu=Ics) 125 Amps 3Pole 25kA								
	I.No 5.14.2 P.No 26 EW SR 2019-20	Each	1				1.00	6262.00	6262.00
56	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure. Single Door - 8way TP &N								
	I.No 5.18.3 P.No 28 EW SR 2019-20	Each	1				1.00	970.00	970.00
57	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure. Double Door - 6way TP &N								
	I.No 5.18.2 P.No 28 EW SR 2019-20	Each	1				1.00	993.00	993.00
58	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V uoto 300mA sensitivity on exisiting wood/panel board.16- 25Amps 2 pole								

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	I.No 5.20.1 P.No 28 EW SR 2019-20	Each	1				1.00	2323.00	2323.00
59	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V upto 300mA sensitivity on exisiting wood/panel board 32-40 Amps 4 pole								
	I.No 5.20.3 P.No 28 EW SR 2019-20	Each	1				1.00	2828.00	2828.00
60	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. confirming to IEC 60898. 6-32A SP MCB								
	I.No 5.17.1 P.No 27 EW SR 2019-20	Each	25				25.00	438.00	10950.00
61	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. confirming to IEC 60898. 6-32A TPN MCB								
	I.No 5.17.7 P.No 27 EW SR 2019-20	Each	5				5.00	1732.00	8660.00
62	Supplying of 4' - LED PVC square batten 28Watts with high quality diffuser with life of 25000 burning hours & 70% lumen maintanance with CRI > 80. Power input: 220-240V @ 50Hz & power factor > 0.9 along with CE approved drivers. 5years warranty against any manufacturing defect working under standard electrical condition. 1x4'.-20/22 w								
	I.No 12.3.2 P.No 64 EW SR 2019-20	Each	30				30.00	379.00	11370.00
63	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part.								
	I.No 12.9.3 P.No 67 EW SR 2019-20	Each	60				60.00	8888.00	533280.00
64	Supplying & Fixing of 70-150 Watts lamp holder 2 Pin								
	I.No 13.46 P.No 76 EW SR 2019-20	Each	10				10.00	107.00	1070.00
65	Supplying and fixing of round or oblong type bulk head fitting glass cover.								
	I.No 13.53 P.No 76 EW SR 2019-20	Each	10				10.00	62.00	620.00

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
66	LED Flood Light. Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / I.No 12.9.1 P.No 67 EW SR 2019-20	Each	12				12.00	6868.00	82416.00
67	Supplying of 1440rpm heavy duty eahust fan with bracket blades suitable for operate on 230V 50Hz, AC Supply complete. 15" sweep I.No 7.2.2 P.No 46 EW SR 2019-20	Each	4				4.00	4040.00	16160.00
68	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Regular model I.No 7.3.1 P.No 46 EW SR 2019-20	Each	10				10.00	2111.00	21110.00
69	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Economy model I.No 7.3.2 P.No 46 EW SR 2019-20	Each	20				20.00	2148.00	42960.00
70	Supplying wall mounting fan suitable to operate at single phase 230V AC Supply. 400mm sweep I.No 7.5.2 P.No 46 EW SR 2019-20	Each	8				8.00	2828.00	22624.00
71	Fixing all types and allcapacities fluorescent / false ceiling/spotlight/ CFLfittings indoor on the wall/ ceiling/rafters / girders using 23/0.0076" twin twisted RVC insulated wires, required nos of round blocks and clamps (if required) a)On wall/ceiling/Rafters/Girders I.No 14.7.1 P.No 79 EW SR 2019-20	Each	15				15.00	111.00	1665.00
72	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely.Using necessary length of G.I. chain I.No 14.7.2 P.No 79 EW SR 2019-20	Each	33				33.00	236.00	7788.00
73	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or rackets with bolts and nutsand a 5 amps, ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame if required. I.No 14.11 P.No 80 EW SR 2019-20	Each	4				4.00	657.00	2628.00
74	Fixing halogen/ metal halide/ SVL/ IL / LED flood light fitting over existing pole/ wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires. I.No 14.5 P.No 79 EW SR 2019-20	Each	4				4.00	177.00	708.00

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
75	Fixing charges of post top/Gate/Garden fitting/ LED on the existing CI/ GI or any other pipe using required size of reducer, wiring using suitable wires etc., complete.								
	I.No 14.6 P.No 79 EW SR 2019-20	Each	8				8.00	156.00	1248.00
76	Supplying fixing and wiring earth electrode for grounding of lifts,transformers,DG sets etc., using 40m dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm around with alternate layers of salt and charcoal from the bottom of the CC chamber.								
	I.No6.2 P.No 40 EW SR 2019-20	Each	4				4.00	4192.00	16768.00
77	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required 25 x 3 mm Cu strip for server link to brought in to the building as per site conditons								
	I.No 6.3.1 P.No 40 EW SR 2019-20	Each	25				25.00	76.00	1900.00
78	Providin 4 Kg Fire Estinguisher for lite metal fires SPM_TEC With intsatnt alert system with superior qlty EPDM rubbe hose pipe complete etc. 5 years warranty								
	PWD SRV 2018-19 P.N 349 I.N 4016	Each	2				2.00	10713.00	21426.00
79	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC insulated,extruded inner sheathed sheathed,galvanised ,strips (except 2Cx10 sqmm wire armoured) asper IS-3975:1990 & extruded PVCouter sheathed armoured cable as per Is-1554 pare -1:1998 & confirming to GTP of								
	7.4.5 3.5 core 25 sqmm						125.00	182.00	22750.00
	I.No 6.4.5 P.No 40 EW SR 2019-20								
	Plumbing & Sanitory Works								
80	KSRB 11.11.4 : - Providing and fixing white vitreous china clay, flat back wash basin of size 550x400mm with a single 15mm C.P brass pillar taps with C.I./M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fitting and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11. (P.No.81, I.No.12.26 of PW,P&IWTD S.R 2018-19)								
		Nos	2	--	--	--	2.00	3295.00	6590.00
81	KSRB 13-6.1.1: Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3 (P.No.91, I.No.13.24 of PW,P&IWTD S.R 2018-19)								
		Unit	4	--	--	--	4.00	189.00	756.00
82	KSRB 11-17-2: Providing and fixing C.P. brass towel rail 600 mm length, 20mm dia with C.P. brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labor complete as per specifications (P.No.84, I.No.12.46 of PW,P&IWTD S.R 2018-19)								
		Unit	4	--	--	--	4.00	735.00	2940.00
83	KSRB 13-6.2.1: Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification NO. KBS 13.2.2 / 13.3 (P.No.92, I.No.13.26 of PW,P&IWTD S.R 2018-19)								
		Each	4	--	--	--	4.00	154.00	616.00
84	Providing and fixing CI Nahani Trap of approved make conforming to ISI specifications and construction of cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot). (P.No.82, I.No.12.113.2 of PW,P&IWTD S.R 2018-19)								

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
		Each	5	--	--	--	5.00	311.00	1555.00
85	KSRB 2-2.1 : Earth work excavation for foundation of buildings, water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5. (P.No.4, I.No.2.3 of PW,P&IWTD S.R 2018-19)								
	For Hand Wash Area	Cum	1	150.00	0.60	0.60	54.00		
			1	11.00	5.00	0.60	33.00		
							87.00	326.00	28362.00
86	Providing and fixing chlorinated poly veny chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete.(Internal work exposed on wall) (P.No.96 I.No.13.85.2 of PW,P&IWTD S.R 2018-19)								
		Mtr	1	75.00	--	--	75.00	171.00	12825.00
87	Providing and fixing chlorinated poly veny chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete.(Internal work exposed on wall) (P.No.96, I.No.13.85.3 of PW,P&IWTD S.R 2018-19)								
		Mtr	1	65.00	--	--	65.00	214.00	13910.00
88	Providing and fixing chlorinated poly veny chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete.(Internal work exposed on wall) (P.No.96, I.No.13.85.4 of PW,P&IWTD S.R 2018-19)								
		Mtr	1	65.00	--	--	65.00	277.00	18005.00
89	KSRB 13-6.2.6: Providing and fixing in position brass gate valve with C.I. wheel of approved qualit (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6 / 13.3 (P.No.94, I.No.13.38 of PW,P&IWTD S.R 2018-19)								
		Nos	4	--	--	--	4.00	2294.00	9176.00
90	KSRB 13-6 4.1: providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 15mm nominal bore including of cost of all materials, labour and HOM of equipments with all leads complete as per specifications. (P.No.94, I.No.13.42 of PW,P&IWTD S.R 2018-19)								
		Nos	4	--	--	--	4.00	560.00	2240.00
91	Supppying water storage tanks made of virgin polymer (LLDPE) with two layers outer black of blue and inner white layer of approved quality and make, conforming to ISI / ISO / SSI specifications, No. (P.No.258, I.No.37.58 of PW,P&IWTD S.R 2018-19)								
		Ltr	1	2000.00	--	--	2000.00	7.00	14000.00
92	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications (P.No.90, I.No.12.116.1 of PW,P&IWTD S.R 2018-19)								
		Mtr	1	20.00	--	--	20.00		
			1	40.00	--	--	40.00		
							60.00	473.00	28380.00

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
93	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specificationsNo.KBS Page No. 73/ Item No. 11.50 -do- 600x600mm, and 450 depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5 C.I cover with frame (light duty) 600x600mm, (P.No.75, I.No.11.50.1 of PW,P&IWTD S.R 2018-19)	Nos	4	--	--	--	4.00	7705.00	30820.00
94	KSRB 13-8.1: Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00KGf/sq.cm. working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling an floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No. 13.2.15.1 / 13.9 for internal water supply connection (P.No.93, I.No.13.70.6 of PW,P&IWTD S.R 2018-19)	Nos	1	25.00	--	--	25.00	606.00	15150.00
								Sub Total Rs.	7268499.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple In Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
95	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications, KSRRB M200-17.1. -d o - v) Steel work in all types of Sections upto Tonne a Height of 5 m above plinth level excluding Cutting of Rivet - A. Including dismembering."								
	For existing steel arch cum roofing steel arch 125 kg Per sqm		1	40.00	10.00	--	50.00		
							50.00	2065.00	**1,03,250.00**
96	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No.KBS 2.1(a)/2.3.5. (P.No.5, I.No.2.3 of PW,P&IWTD S.R 2018-19)								
	For Truss Footing	Cum	22	1.80	1.80	1.50	**106.92**	326.00	**34856.00**
97	KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix M-10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates at 0.892cum and fine aggregates at 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2018-19)								
	For truss Footing	Cum	22	1.80	1.80	0.15	**10.69**	5666.00	**60581.00**
98	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW,P&IWTD SR 2018-19)								
		Cum							
	For truss Footing	2	22	1.50	--	0.40	26.40		
		2	22	1.50	--	0.40	26.40		
							52.80	281.00	**14837.00**
99	KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2. (P.No.16, I.No.4.32 of PW,P&IWTD SR 2018-19)								
	Pedestal	Sqm							
		2	22	0.60	--	0.95	25.08		
		2	22	0.45	--	0.95	18.81		
							43.89	497.00	**21813.00**
100	KSRB - 4.2.8: Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C beams, columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Speceification No. KBS 4.1,4.6. (P.No.14, I.No 4.13 of PW, P&IWTD S.R 2018-19)								
	For truss Footing		22	1.50	1.50	0.40	19.80		
	Pedestal		22	0.45	0.60	0.95	5.64		
							25.44	6427.00	**163522.00**
101	KSRB - 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2018-19)								
	Steel	Tonne		Qty	Per Kg		Total Qty in kg		
	Ground Floor								
	Footing			19.80	80.00	--	1584.00		
	Pedestal			5.64	200.00	--	1128.60		
						Kg	2712.60		
						MT	2.71		
						Say	**2.75**	70258.00	**193210.00**

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BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
102	KSRRB 300- Scarifying the surface and dressing. KSRRB 300-44. Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications. MORTH chapter 3. (P.No.147, I.No.19.50 of PW, P&IWTD S.R 2018-19)								
	For Paryer Hall (Truss Roof Flooring)	Sqm	1	59.50	10.00	--	595.00	87.00	51765.00
103	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD S.R 2018-19)								
	For Paryer Hall (Truss Roof Flooring)	Cum	1	59.50	10.00	0.25	148.75	2059.00	306276.00
104	Royal Bench: Made out of Sadrahallii grey stone with hand support with machine cutting top slab with line finishing with ARCH desgin neatly curved and fixing with 150mm slab 150x45x150(Approved Data Rate)								
		Nos	12	--	--	--	12.00	10605.00	127260.00
105	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasticisers @ 3lts conforming to is 9103-1999 reafirmed -2008, machine mixed concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings, pedastals retaining walls, return walls, walls (any thickness) including attached plasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, (P.No. 13, I.No.4.11 of PW,P&IWTD S.R 2018-19)								
	Truss Roof Flooring	Cum	1	59.50	10.00	0.15	89.25		
	Along Building Side		1	10.00	5.00	0.15	7.50		
			1	12.00	6.00	0.15	10.80		
			1	16.00	5.40	0.15	12.96		
							120.51	6173.00	743908.00
106	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufactures of blocks of approved size , shape and colour with a minimum compressive strength of 281kgs per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour,								
	Truss Roof Flooring	Sqm	1	64.00	10.00	--	640.00	1211.00	775040.00
107	Providing and fixing granite name board fixed in cement morter to wall."The board shall be fixed as per the drawing and at the place indicated by the engineer in charge of the work the cost includes bare cost of all materials, scaffolding,transportation charges, fixing charges, labour HOM Etc (Qutation Rate)								
	Inside Of Temple	Each	2	--	--	--	--	201232.00	201232.00
108	Fabricating supplying and erecting M.S. Tubuler Truss of all span as per approved drawing design with prefabricated applications using quality material and are durable reliable and corrosion and abrasion resistant. welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc, complete as per								
	For Paryer Hall Truss Roof								
	Steel Stamation 500kg/Stamation	Kg	1	22.00	500.00	--	11000.00		
			1	60.00	10.00	--	600.00		
							3000.00		
	Purline 5kg/Sqm		1	60.00	15.00	--	900.00		
							10800.00		
	Truss 12kg/Sqm		2	60.00	0.30	--	36.00		
							252.00		
	GI Gutter 7kg/Sqm						25052.00	121.00	3031292.00
109	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trpezoidal profiled sheet of approved make 1060mm width (1000mm cover width), 28-30 mm crest height with cest distance of 200 mm c/c with 2 ribs at the center for stiffening , The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc –Alu Alloy coating AZ 150 gsm as pe ASTM 1397/A755-550 mpa steel grade. 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling /self tapping screws of 25mm length,to be fixed over the existing purlins, rafters channel and trusses (P.No.299, I.No.38.30 of PW,P&IWTD S.R 2018-19)								
	For Paryer Hall Truss Roof								
	Truss	Sqm	1	60.00	15.00	--	900.00		

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BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple In Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Gutter		2	60.00	0.45	--	54.00		
							954.00	750.00	715500.00
110	KSRRB M100-1 & M100-4 1. Conveying by Loading and unloading of moorum/debris. Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, including time for haulage and return trip complete as per specifications. MORTH-100/Chapter 1, Case-I : Surface Road. (Page No.136, Iteam No-17.1 & 17.4 & note of P.No.139 of PW,P&IWTD S.R 2018-19)								
	Only same as item no 1	Cum	--	--	--	--	106.92	132.00	14113.00
								Sub Total Rs	6558455.00

CERTIFICATE:

1. The work spot has been inspected by me and the work is found to be necessary.
2. The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3. The Provisions made in the estimate are quite necessary and adequate.
4. The area comes with in the BBMP limits.

Assistant Engineer

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

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BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
111	KSRB 2-2.1: Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **ordinary soil** not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No.KBS 2.1(a)/2.3.5. (P.No.5, I.No.2.3 of PW,P&IWTD S.R 2018-19)								
	For Ramp	Cum	1	121.00	9.50	0.53	**609.235**	326.00	**198611.00**
112	KSRB - 4.9.2: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.No.17, I.No.4.46.2 of PW, P&IWTD SR 2018-19)								
	Steel	Tonne		Qty	Per Kg	Total Qty in kg			
	For Ramp Considering 5kg/ Sqm			1406.00	5.00	--	7030.00		
							7030.00 Kg		
							7.03 MT		
						Say	**7.05**	70258.00	**495319.00**
113	KSRRB M400-6.2: Construction of granular sub case by providing close graded material, spreading in uniform layers with motors grader on prepared surface, mixing by mix in place method by rotavator at OMC, and compacting with vibratory power roller to achieve the desired density, complete as per specifications. B, By mix in place method. (P.No.153, I.No.20.5 of PW, P&IWTD S.R 2018-19)								
	For Ramp	Sqm	1	121.00	9.50	0.15	**172.43**	2053.00	**353989.00**
114	KSRRB M600-1: Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @ 160kg, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS " 383) aggregates cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 160 kg/cum, optimum moisture content to be determined during trial length construction ,concrete strength not to less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonne vibratory roller, finishing and curing complete as per specifications. MORTH specification No. 601, (P.No.158, I.No.22.1.2 of PW,P&IWTD S.R 2018-19)								
	For Ramp	Cum	1	121.00	9.50	0.15	**172.43**	3998.00	**689355.00**
115	KSRRB M600-2: Cement concrete pavement : construction of unreinforced, dowel jointed, plaint cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplstisizer at 3lts conforming to IS: 1999 reaffirmed 2008, (Coarse and fine aggregate conforming to IS: 383) mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specification MORTH specification No. 602 (P.No.158, I.No.22.2.2 of PW,P&IWTD S.R 2018-19)								
	For Ramp	Cum	1	121.00	9.50	0.15	**172.43**	6030.00	**1039723.00**
116	Vaccum De- writing with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery Screed Vibratory Power Floater blade and disc etc. with all lead and lift. (P.No.101, I.No.22.7 of PW, P&IWTD SR 2018-19)								
	For Ramp	Sqm	1	121.00	9.50	--	**1149.50**	80.00	**91960.00**

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BRUHAT BANGALORE MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate In Rs	Amount in Rs
117	KSRRB M100-1 & M100-4.1. Conveying by Loading and unloading of moorum/debris. Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, including time for haulage and return trip complete as per specifications. MORTH-100/Chapter 1. Case-I : Surface Road. (Page No.136, Iteam No-17.1 & 17.4 & note of P.No.139 of PW,P&IWTD S.R 2018-19)								
	Qnty same as item no 1	Cum	--	--	--	--	609.24	132.00	80419.00
								Sub Total Rs.	2949376.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary.
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

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BRUHAT BENGALURU MAHANAGARA PALIKE

MODIFIED ESTIMATE -1

Name of Work:- Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	Rate	Lakhs Amount
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. —do– II. By Mechanical Means. A. Cement Concrete Grade M-15 & M-20.. MORTH Specification No. 202 . As Per Direction Of The Engineer Incharge								
	Dismantling	Cum							
	Pillars		3	2.00	2.00	3.00	36.00		
							36.00	459.00	16524.00
2	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202. As Per Direction Of The Engineer Incharge								
	Dismantling	Cum							
	Mathikere Main Rd		1	30.00	2.50	0.15	11.25		
							11.25	1061.00	11936.25
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.KSRRB M200- 15.2. –do– B. Rubble stone masonry in cement mortar. MORTH Specification No. 202 . As Per Direction Of The Engineer Incharge								
	Dismantling	Cum							
	New Drain		2	226.00	0.45	0.60	122.04		
							122.04	417.00	50890.68
4	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 . As Per Direction Of The Engineer Incharge								
	Earthwork	Cum							
	New Drain		1	63.00	1.20	1.20	90.72		
	Culvert		1	12.19	2.50	1.20	36.57		
			1	6.00	2.50	1.20	18.00		
	For Footpath Portion		1	172.10	1.60	1.00	275.36		
			1	29.20	1.80	1.00	52.56		
			1	57.00	1.72	1.00	98.04		
	Ramp		1	14.00	2.00	0.45	12.60		
	SSM Drain		1	7.10	0.60	2.00	8.52		

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Shoulders		12	1.90	0.45	0.45	4.62		
	Desilting		1	300.00	0.60	0.60	108.00		
	Sanitory Line		1	331.00	1.05	1.10	382.31		
							1087.29	238.00	258775.50
5	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 . As Per Direction Of The Engineer Incharge								
	PCC	Cum							
	New Drain		1	63.00	1.20	0.15	11.34		
	Culvert		1	12.19	2.50	0.15	4.57		
			1	6.00	2.50	0.15	2.25		
	SSM Drain		1	7.10	0.60	0.15	0.64		
	Shoulders		12	1.90	0.45	0.15	1.54		
	Ramp		1	14.00	2.00	0.15	4.20		
	Sanitory Line		1	331.00	0.75	0.15	37.24		
							61.78	4524.00	279478.02
6	Providing and laying Plain / Reinforced Cement Concrete design mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with superplasticizer @3lts confirming to IS9103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 1500,1700 & 2100 . As Per Direction Of The Engineer Incharge								
		Sqm							
	Drain Raft		1	63.00	0.90	0.15	8.51		
	Drain Wall		2	63.00	0.15	0.90	17.01		
							25.52		
	Culvert Raft		1	12.19	1.06	0.15	1.94		
			1	6.00	1.06	0.15	0.95		
	Culvert Wall		2	12.19	0.23	0.90	5.05		
			2	6.00	0.23	0.90	2.48		
							10.42		
	Wall raising		2	60.00	0.15	0.30	5.40		
	Wall		1	60.00	1.20	0.15	10.80		
	Ramp		1	14.00	2.00	0.30	8.40		
							24.60		
	Footpath Portion		1	172.10	1.60	0.15	41.30		
			1	29.20	1.80	0.15	7.88		
			1	57.00	1.72	0.15	14.71		
			1	14.00	2.00	0.15	4.20		
	F P		1	47.00	1.80	0.15	12.69		
			1	22.60	1.10	0.15	3.73		
							84.51		

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
							145.05	5348.00	775732.05
7	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 TMT Bars Fe 500 . As Per Direction Of The Engineer Incharge								
	For RCC Drain	**Ton**							
	Total RCC Quantity =	Cum							
	For 1 CUM = 60	Kg					50.12		
		Kg					60.00		
							3006.90		
	For RCC Culvert	**Ton**					**3.01**	**65696.00**	**197541.30**
	Total RCC Quantity =	Cum							
	For 1 CUM = 80	Kg					10.42		
		Kg					80.00		
							833.83		
							0.83	**65696.00**	**54779.27**
8	Providing & laying precast drain cover slab of 100 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) . As Per Direction Of The Engineer Incharge								
		Sqm							
	For RCC Drain								
	New Covering Slab		143	0.60	1.20		102.96		
			64	0.60	1.20		46.08		
	For SSM Drain								
	New Covering Slab		1	7.10	1.20		8.52		
	For Shoulders		12	1.90	0.60		13.68		
							171.24	**2337.00**	**400187.88**
9	Providing & laying precast drain cover slab of 250 mm thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(1.2 x 0.60 x 0.25) . As Per Direction Of The Engineer Incharge								
		Sqm							
	For Culvert								
			1	12.19	2.50		30.48		
			1	6.00	2.50		15.00		
							45.48	**5418.00**	**246383.55**
10	Providing and constructing Precast concrete solid blocks with compressive strenght not less than 35Kg/sqm with cement mortar 1:4 masonry (quion, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms confirming to IS:2185/1965 in superstructure including cost of materials, labour charges, scalffolding, curing etc., complete as per specifications.								
		Sqm							
			24	1.90		0.45	20.52		
							20.52	**995.00**	**20417.40**

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
11	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13								
		Cum							
			2	7.10	0.60	0.80	6.82		
							6.82	5981.00	40766.50
12	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/								
		Cum							
	For SSM Coping		2	7.10	0.60	0.15	1.28		
	Shoulders		24	1.90	0.15	0.10	0.68		
	Below Kerb		1	258.30	0.15	0.10	3.87		
			1	30.00	0.15	0.10	0.45		
	Side Kerbs		1	258.30	0.10	0.30	7.75		
			1	30.00	0.10	0.30	0.90		
							14.94	5914.00	88328.55
13	Providing and laying heavy duty cobble stones interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications. Specification No. KBSKSRB 14.6-2 (do - heavy duty cobble stones 60mm thick) . As Per Direction Of The Engineer Incharge								
		Sqm							
	For Footpath Portion		1	172.10	1.60		275.36		
			1	29.20	1.80		52.56		
			1	57.00	1.72		98.04		
	F P		1	47.00	1.80		84.60		
			1	22.60	1.10		24.86		
							535.42	1127.00	603418.34
14	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete.. As Per Direction Of The Engineer Incharge								
	New Kerb	m							
			1	258.30			258.30		
			1	30.00			30.00		
							288.30		
	No of Kerb Legth/.45						641.00	472.00	302552.00

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
15	Providing and applying spray painting (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. . As Per Direction Of The Engineer Incharge								
		Sqm							
			1	288.30		0.40	115.32		
							115.32	59.00	6803.88
16	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 . As Per Direction Of The Engineer Incharge								
		Sqm							
			1	288.30		0.40	115.32		
							115.32	86.00	9917.52
17	Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301 . As Per Direction Of The Engineer Incharge								
	Road Widening Portion	Cum							
			1	325.00	4.50	0.45	658.13		
	CC Road		1	17.60	2.00	0.45	15.84		
							673.97	142.00	95703.03
18	Construction of granular sub-base Grading-V as sub base and drainage layers by providing coarse graded crushed stone aggregates of granite / trap / basalt material, mixing in mechanical mix plant at OMC carriage of mixed materials to work site, spreading in uniform layers with motor grader on prepared surface, and compacting with vibratory power roller to achieve the 98% proctor density, complete as per specifications. as per 401 of MORTH V revision. I.NO.20.5 P.NO.153								
		Cum							
	For Footpath Portion		1	172.10	1.60	0.35	96.38		
			1	29.20	1.80	0.35	18.40		
			1	57.00	1.72	0.35	34.31		
	Ramp		1	14.00	2.00	0.35	9.80		
			1	22.60	1.10	0.35	8.70		
	F P		1	47.00	1.80	0.35	29.61		
	CC Road		1	17.60	2.00	0.35	12.32		
	Road Widening Portion								
			1	325.00	4.50	0.30	438.75		
							648.27	2100.00	1361360.70
19	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 P.NO.155 I.NO=20.18								
		Cum							

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	For Footpath Portion		1	172.10	1.60	0.45	123.91		
			1	29.20	1.80	0.45	23.65		
	Ramp		1	57.00	1.72	0.45	44.12		
	Road Widening Portion		1	14.00	2.00	0.45	12.60		
	Sanitory Line		1	325.00	4.50	0.30	438.75		
			1	331.00	0.75	0.20	49.65		
							692.68	2100.00	1454632.20
20	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge. . As Per Direction Of The Engineer Incharge								
		Sqm							
	Road Widening Portion								
			1	325.00	4.50		1462.50		
							1462.50	30.00	43875.00
21	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. . As Per Direction Of The Engineer Incharge								
		Cum							
	Road Widening Portion								
			1	325.00	4.50	0.05	73.13		
	Photoholes & Cutting Portion								
			1	200.00	1.50	0.05	15.00		
			8	2.80	3.20	0.05	3.58		
			7	3.30	3.90	0.05	4.50		
							96.21	8500.00	817814.75
22	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5 . As Per Direction Of The Engineer Incharge								
		Sqm							
	Road Widening Portion								
			1	325.00	4.50		1462.50		
	Photoholes & Cutting Portion								
			1	200.00	1.50		300.00		
			8	2.80	3.20		71.68		
			7	3.30	3.90		90.09		
							1924.27	13.00	25015.51

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
23	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015 – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic). . As Per Direction Of The Engineer Incharge								
		Cum							
	Road Widening Portion								
			1	325.00	4.50	0.04	58.50		
	Photoholes & Cutting Portion								
			1	200.00	1.50	0.04	12.00		
			8	2.80	3.20	0.04	2.87		
			7	3.30	3.90	0.04	3.60		
							76.97	9500.00	731222.60
24	KSRRB M600-1: Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @ 160kg, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum sub-base over a prepared sub-grade with (coarse and fine aggregate conforming to IS " 383) aggregates cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 160 kg/cum, optimum moisture content to be determined during trial length construction ,concrete strength not to less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonne vibratory roller, finishing and curing complete as per specifications. MORTH specification No. 601, (P.No.158, I.No.22.1.2 of PW,P&IWTD S.R 2018-19)								
		Cum							
	CC Road								
			1	17.60	2.00	0.15	5.28		
							5.28	3998.00	21109.44
25	KSRRB M600-2: Cement concrete pavement : construction of unreinforced, dowel jointed, plaint cement concrete pavement over a prepared sub base with 25mm and down size graded granite metal coarse aggregate with superplstisizer at 3lts conforming to IS: 1999 reaffirmed 2008, (Coarse and fine aggregate conforming to IS: 383) mixed in a batching and mixing plant as per approved mix design, transported to site, laid with a fixed form or slip form paver, spread, compacted and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, sealant primer, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specification MORTH specification No. 602 (P.No.158, I.No.22.2.2 of PW,P&IWTD S.R 2018-19)								
		Cum							
	CC Road								
			1	17.60	2.00	0.15	5.28		
							5.28	6030.00	31838.40

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
25	KSRB 12-8.1 : Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38kg (weight of cover 23kg and weight of frame 15kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specificationsNo.KBS Page No. 73/ Item No. 11.50 -do- 600x600mm, and 450 depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5 C.I cover with frame (light duty) 600x600mm.								
		No's							
	Chambers								
			7				7.00		
	ERIL Items						7.00	7705.00	53935.00
1	KSRB 12-1: Providing and laying in position to required level or slope of internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5/12.7 KSRB 12-1.9 : - d o - 230 mmn I.No 11.4								
		Mtr							
	Basic Rate	536.00							
	A W 8 %	42.88							
	Sub Total	578.88							
	TP 1 %	5.79							
	Total	584.67							
	Sanitory Line								
			1	331.00			331.00		
							331.00	584.67	193525.37
2	KSRB 12-3 : Providing and laying in position plain cement concrete of mix M 7.5 using 40mm and down size graded granite / trap metal for haunching of internal diameter stoneware pipes, concrete machine mixed laid in layers not exceeding 15 cms thick, well compacted, including cost of materials, labour charges, form work, HOM curing complete as per specifications. Specification No. KBS 4.1 / 4.2 I.No 11.22 P.No 73 230 mm								
		Mtr							
	Basic Rate	784.00							
	A W 8 %	62.72							
	Sub Total	846.72							
	TP 1 %	8.47							
	Total	855.19							
	Sanitory Line								

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
			1	331.00			331.00		
	Sub Total						331.00	855.19	283066.96
									8477531.65

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Assistant Engineer
Ward No 17

Assistant Executive Engineer
Yashwanthapura Sub Division

Executive Engineer
RR Nagara Division

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

Sl No	Description of work	Unit	Quantity	Rate in Rs	Amount in RS
1	Providing and constructing Precast concrete solid blocks with compressive strenght not less than 35Kg/sqm with cement mortar 1:4 masonry (quion, Jamb, closer blocks) with solid concrete blocks of size 40x20x20cms confirming to IS:2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing etc., complete as per specifications.	Sqm			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		128.01		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		20.52		
	Total		148.53	995.00	147787.35
2	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:8, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13	Cum			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		10.86		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		6.82		
	Total		17.68		
	Schedule B		8.86		
	Upto 125 %		11.08	5981.00	66239.58
	Above 125 %		6.60	6281.69	41465.45
3	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.459cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2/	Cum			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		8.31		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		14.94		
	Total		23.25		
	Schedule B		8.31		
	Upto 125 %		10.39	5914.00	61431.68
	Above 125 %		12.86	6576.80	84564.49
4	Providing 18mm thick cement plaster in single coat with cement mortor 1:3, to brick masonry including rounding off corners wherver required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		117.81		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		117.81	301.00	35460.81
5	Providing 15m thick cement plaster in single coat with cement mortar 1:4,tobrick masonry including rounding off corners wherever reuired smooth rendering, Providing and removing scaffolding, including cost of materials, labour. Curing complete as per specifications.	Sqm			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		27.86		
	Total		**27.86**	**241.00**	**6714.26**
	Providing 12mm thick cement plaster in single coat with cement mortor 1:4, to ceiling including rounding off corners wherver required smooth rendering. Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		623.52		
	Total		**623.52**	**245.00**	**152762.40**
	Providing and laying flooring using prepolished water cut/gang saw 19 mm thick Granite laid over bed of 20mm thick 1:4 and jointed with neat cement slurry mixed with pigment of mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete. using black granite/ Multy Red / Ruby Red/ Black / Hassan Green Granite of width not less than 900mm	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		57.10		
	Total		**57.10**	**2627.00**	**150001.70**
	Providing vitrified tiles 1000 x 1000mm /800x1200mm of approved make, shade and size for flooring laid on a bed of 12mm thick cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing complete as per specification 14.45.1 (Data Approved rate)	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		633.30		
	Total		**633.30**	**2924.00**	**1851769.20**
	KSRB 14.15-1: Providing marble slab flooring 20mm thick with edges of slab machine cut, for flooring, treads of steps and landings laid on a bed of 25mm thick cement mortar 1:6 mix, to line and level, jointed with cement slurry curing, rubbing, polishing complete finishing with flush pointing using white cement including cost of materials, HOM of machineries, labour, curing complete as per specifications.	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		66.51		
	Total		**66.51**	**3907.00**	**259854.57**
	Providing and fixing in position 12mm thick plaster of paris (gypsum anhydrous) for ceiling reinforced with hessian cloth flat surface upto a height of 5m above floor level over aluminium 25mm/6mm with 10mm gap in between and reinforced with rabbit wire mesh fixed to metal frames ncluding cost of materials,labour,curing complete as per specification	**Sqm**			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:: Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		690.30		
	Total		**690.30**	**1273.00**	**878751.90**
12	KSRB 15:5.1: Providing rough plastering 15mm thick in single coat with cement mortor 1:4, to brick masonry for base of dadooing works with sand of approved quality, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		16.20		
	Total		**16.20**	**224.00**	**3628.80**
13	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, labour, curing complete as per specifications. Specification No. KBS 14.26	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		50.00		
	Total		**50.00**	**3535.00**	**176750.00**
14	Providing Full nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work,HOM of equipment etc., complete as per specification1	**Sqm**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		86.80		
	Total		**86.80**	**295.00**	**25606.00**
15	Providing teak wood frames of doors, windows, clerestory windows, ventilators, and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33	**Cum**			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		0.78		
	Total		**0.78**	**198612.00**	**154917.36**
16	Providing and fixing in position fully panelled teak wood shutters for doors, styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures).Specification No 9.34	**Sqm**			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		13.44		
	Total		13.44	8844.00	118863.36
5	Providing & fixing of glazed 2 Track-2 Panel Sliding Windows made out of multi Chamered uPVC section with TPV gaskets having isolated drainage and reinforced with Galvanized iron profiles through out the window .The outer frame having a overall size of 60x45 mm with reinforcement of 1mm thickness and sash with overall size 39x58 mm with reinforcement of 1.5 mm thickness. Glazing bead for fixing of glass shall be of size 20x18mm and coextruded with gasket. Windows shall be provided with 5mm plain float glass, standard hardware & single point locking system of flush lock, Wall thickness of frame & sash shall be 2-2 2mm	Sqm			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		3.00		
	Total		3.00	3301.00	9903.00
6	Fixing of door frame in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and down size granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debries with lead upto 50m. including cost of materials, labour charges, complete as per Specification	Nos			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		2.00		
	Total		2.00	1490.00	2980.00
7	Providing and fixing M.S.grill work for windows and ventilators weighing 21 kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S.flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifictions. Specification No. KBS 7.12	Kg			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		63.00		
	Total		63.00	104.00	6552.00
9	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications (P.No.57, I.No.15.60.1. of PW,P&IWTD SR 2018-19)	Sqm			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		13.44		

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

2	Providing and applying enamel metal paint two coats (Excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materails, labour, complete as per specifications.	Sqm	13.44	106.00	1424.64
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		31.20		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		31.20	104.00	3244.80
3	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junction of walls and slabs, (c) after two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of	Sqm			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		623.52		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		623.52	1097.00	684001.44
4	Providing and laying in position Yelahanka tiles of size 250 x 250mm of approved quality and make, over a bed of cement mortar 1:3 an average thickness 25mm over weather proof course and pointed with cement mortar 1:3 mix with red oxide including curing cost of materials, labour complete as per specifications.	Sqm			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		623.52		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		623.52	1067.00	665295.84
5	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials a) Short point upto 3.0M from tapping point to outlet via switch box	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		30.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		30.00	202.00	6060.00

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

26	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials b) Medium point above 3.0M upto 6.0M from tapping point to outlet via switch box	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		45.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**45.00**	**278.00**	**12510.00**
27	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials c) Long point above 6.0M upto 10.0M from tapping point to outlet via switch box	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		70.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**70.00**	**404.00**	**28280.00**
28	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials d) Two outlet in a row, above 3.0M upto 6.0M from tapping point to outlet via switch box	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		40.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**40.00**	**530.00**	**21200.00**
29	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using 1100V grade, copper conductor flecxible multistrand FRLS PVC insulated, 2x.1.5Sqmm cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/ PVC round block.complete for each outlet. Point wirig using class A Materials e) Three outlet in a row, above 6.0M upto 10.0M from tapping point to outlet via switch box	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		15.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**15.00**	**758.00**	**11370.00**
30	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall c) 6 Ways	Each			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		40.00		
	Total		**40.00**	**126.00**	**5040.00**
	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall d) 8Way	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		40.00		
	Total		**40.00**	**146.00**	**5840.00**
	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.Cwall e) 10-12Way	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		40.00		
	Total		**40.00**	**167.00**	**6680.00**
	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos of machine screws, bolts nuts etc., complete on the existing metal/PVC box. b) 4Module	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		45.00		
	Total		**45.00**	**126.00**	**5670.00**
	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos of machine screws, bolts nuts etc., complete on the existing metal/PVC box. d) 8Module	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		45.00		
	Total		**45.00**	**202.00**	**9090.00**
	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos of machine screws, bolts nuts etc., complete on the existing metal/PVC box. e) 10-12 Module	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		30.00		
	Total		**30.00**	**232.00**	**6960.00**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

[illegible]	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos of machine screws, bolts nuts etc., complete on the existing metal PVC box. f) 16-18 Module	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		45.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		45.00	273.00	12285.00
[illegible]	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.6Amps one way	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		250.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		250.00	71.00	17750.00
[illegible]	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 12936Amps Two way	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		300.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		300.00	96.00	28800.00
37	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. 6Amps 3way socket	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		92.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		92.00	106.00	9752.00
38	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293. d) Steeped fan Regulator	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		65.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		65.00	293.00	19045.00
39	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.e) 16Amps one way switch	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		45.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		45.00	116.00	5220.00
40	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 f) 6Amps Bell push	Each			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple In Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		65.00		
	Total		65.00	97.00	6305.00
42	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 g) 6/16Amps universal socket	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		75.00		
	Total		75.00	164.00	12300.00
43	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 h) TV/Telephone socket	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		45.00		
	Total		45.00	80.00	3600.00
44	Supply and fixing of 6Amps bell buzzer on existing switch board.	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		1.00		
	Total		1.00	115.00	115.00
45	OPEN Conduit System:Supplying following size heavy guage PVC conduit pipe confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plug in case of brick wall and cement plastering the damaged portion using heavy gaguge saddles at an interval of 700 mm using N F screws a) 19mm dia 2mm thick	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		900.00		
	Total		900.00	51.00	45900.00
46	OPEN Conduit System:Supplying following size heavy guage PVC conduit pipe confirming to IS 2509 with suitable size bends, Metal/PVCjunction boxes, adhesive paste etc, and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plug in case of brick wall and cement plastering the damaged portion using heavy gaguge saddles at an interval of 700 mm using N F screws b) 25mm dia 2mm thick	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		800.00		
	Total		800.00	66.00	52800.00

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	OPEN Conduit System Supplying following size heavy guage PVC conduit pipe confirming to IS 2509 with suitable size bends, Metal/PVC junction boxes, adhesive paste etc. and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plug in case of brick wall and cement plastering the damaged portion using heavy gaguge saddles at an interval of 700 mm using N F screws (c) 32mm dia 2.5mm thick	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		350.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		350.00	93.00	32550.00
	CONCEALED Conduit System: Supplying heavy gauge pvc conduit pipe dia mm thick with suitable size bends, metal Junction boxes adhesive paste etc ,by groove cutting in the wall and fixing by bracing U & J hooks and Cement plasteriing upto the wall surface and run wirh 18 SWG GI fish wire run throughout the conduit where ever necessary. 19/20 mm dia 2mm thick	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		550.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		550.00	40.00	22000.00
	CONCEALED Conduit System: Supplying heavy gauge pvc conduit pipe dia mm thick with suitable size bends, metal Junction boxes adhesive paste etc..,by groove cutting in the wall and fixing by bracing U & J hooks and Cement plasteriing upto the wall surface and run wirh 18 SWG GI fish wire run throughout the conduit where ever necessary. 25 mm dia 2mm thick	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		350.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		350.00	54.00	18900.00
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A. b) 1.5sqmm	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		5000.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		5000.00	21.00	105000.00
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A. b) 2.5sqmm	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		3500.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		3500.00	33.00	115500.00

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A c) 4sqmm	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		2200.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		2200.00	45.00	99000.00
	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade multisand Copper with low conductor resistance single core wire in open or consealed system of wiring with specified IS-694:1990 & confirming to GTP of Group-A e) 16sqmm	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		206.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		206.00	190.00	39140.00
53	Supplying and fixing regular MCCB distribution Panel confirm to IS 8828, on wall/ woodboard / flush mounting using required clamps,bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with neccesary busbar completely wired to use on 440Volts 3Phase 4wire powder coated painting etc., complete with a provision for fixing of single /three phase suitable capacity MCCB/MCB as outgoings confirm to IS8828. 8Way	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		4.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		4.00	8888.00	35552.00
54	Supplying and fixing regular MCCB distribution Panel confirm to IS 8828, on wall/ woodboard / flush mounting using required clamps,bolts, nuts etc., with provision for fixing of suitable type capacity MCCB's as an incomer for 3 phase Double door with neccesary busbar completely wired to use on 440Volts 3Phase 4wire powder coated painting etc., complete with a provision for fixing of single /three phase suitable capacity MCCB/MCB as outgoings confirm to IS8828. 12Way	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		1.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		1.00	11514.00	11514.00
55	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with the thermal magnetic/micro processor release and earth fault as per IS -13947 (Icu=Ics) 125 Amps 3Pole 25kA	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		1.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		1.00	6262.00	6262

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure. Single Door - 8way SP &N	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		1.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		1.00	970.00	970.00
	Supplying and fixing regular MCB distribution boards on wall/woodboard/flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting etc., Made out of 14SWG MS enclosure. Double Door - 6way TP &N	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		1.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		1.00	993.00	993.00
	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V uoto 300mA sensitivity on exisiting wood/panel board 16- 25Amps 2 pole	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		1.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		1.00	2323.00	2323.00
	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker (ELMCB) 240/450V uoto 300mA sensitivity on exisiting wood/panel board 32-40 Amps 4 pole	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		1.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		1.00	2828.00	2828.00
	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. confirming to IEC 60898. 6-32A SP MCB	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		25.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		25.00	438.00	10950.00
	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and complete wiring as required. confirming to IEC 60898. 6-32A TPN MCB	Each			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		5.00		
	Total		5.00	1732.00	8660.00
	Supplying of 4' - LED PVC square batten 28Watts with high quality Linear with life of 25000 burning hours & 70% lumen maintanance with CRI - 80, Power input 220-240V @ 50Hz & power factor > 0.9 along with CE approved drivers 5years warranty against any manufacturing defect working under standard electrical condition. 1x4' -20/22 w	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		30.00		
	Total		30.00	379.00	11370.00
	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have inhouse facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		60.00		
	Total		60.00	8888.00	533280.00
	Supplying & Fixing of 70-150 Watts lamp holder 2 Pin	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		10.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		10.00	107.00	1070.00
	Supplying and fixing of round or oblong type bulk head fitting glass cover.	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		10.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		10.00	62.00	620.00

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	LED Flood Light Supplying of LED Floodlight with W System Power consumption pressure die cast aluminum housing with powder coating, with IP 65 protection 1, 200-275V voltage with electronic Driver, PF>0.9 should meet ANSI 2G Vibration test. Compliance to UL/CE with System rating shall be 50K hrs @ Lumen maintenance of 70%, System efficacy > 80lm/w Over load & Short circuit protection ensures reliable operation in spite of problem in output side Compliance to IS 10322-IEC 60598, LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED light fixture with W System Power consumption LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier Brand/ Mark /name shall be Engraved / Embossing on the die cast Housing/ Body part Warranty of 5 Years against any manufacturing Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	12.00		
	Total		**12.00**	**6868.00**	**82416.00**
2	Supplying of 1440rpm heavy duty eahust fan with bracket blades suitable for operate on 230V 50Hz, AC Supply complete. 15" sweep Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	4.00		
	Total		**4.00**	**4040.00**	**16160.00**
3	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Regular model Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	10.00		
	Total		**10.00**	**2111.00**	**21110.00**
4	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm) Economy model Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	20.00		
	Total		**20.00**	**2148.00**	**42960.00**
5	Supplying wall mounting fan suitable to operate at single phase 230V AC Supply. 400mm sweep Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	8.00		
	Total		**8.00**	**2828.00**	**22624.00**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Fixing all types and allcapacities fluorescent / false ceiling/spotlight/ light fittings indoor on the wall/ ceiling/rafters / girders using 23/0.0076 inch twisted RVC insulated wires, required nos of round blocks and clamps (if required) a)On wall/ceiling/Rafters/Girders	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		15.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**15.00**	**111.00**	**1665.00**
	Fixing a ceiling/Wall mounting fan of all capacities and all types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely.Using necessary length of G.I. chain	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		33.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**33.00**	**236.00**	**7788.00**
	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or rackets with bolts and nutsand a 5 amps, ceiling rose with sufficient length of 23/ 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame if required.	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		4.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**4.00**	**657.00**	**2628.00**
	Fixing halogen/ metal halide/ SVL/ IL / LED flood light fitting over existing pole/ wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		4.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**4.00**	**177.00**	**708.00**
	Fixing charges of post top/Gate/Garden fitting/ LED on the existing CI/ GI or any other pipe using required size of reducer, wiring using suitable wires etc., complete.	Each			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		8.00		
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total		**8.00**	**156.00**	**1248.00**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:: Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

Supplying fixing and wiring earth electrode for grounding of Lite transformers,DG sets etc., using 40m dia 2.9mm thick 2.5 mtr long Cu rod with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode should have staggered holes of 12mm dia and the electrode should be covered 150mm around with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts.	Each			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		4.00		
Total		**4.00**	**4192.00**	**16768.00**
Supplying and running of GI/Copper strips for grounding connections, being necessary fixing materials as required 25 x 3 mm Cu strip for lightning link to brought in to the building as per site conditons	Each			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		25.00		
Total		**25.00**	**76.00**	**1900.00**
Providin 4 Kg Fire Estinguisher for lite metal fires SPM_TEC With intsamt alert system with superior qlty EPDM rubbe hose pipe complete etc. 5 years warranty	Each			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		2.00		
Total		**2.00**	**10713.00**	**21426.00**
Supplying of 1.1 KV LT UG cable having aluminium conductor PVC insulated,extruded inner sheathed sheathed,galvanised ,strips (except 2Cx10 sqmm wire armoured) asper IS-3975:1990 & extruded PVCouter sheathed armoured cable as per Is-1554 pare -1:1998 & confirming to GTP of GROUP –A Pg 55 & 56 Item 7.4 7.4.5	Each			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		125.00		
Total		**125.00**	**182.00**	**22750.00**
Providing and fixing white vitreous china clay, flat back wash basin of size 550x400mm with a single 15mm C.P brass pillar taps with C.I.M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fitting and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11.	Nos			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17		2.00		
Total		**2.00**	**3295.00**	**6590.00**

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of Jointments with all leads complete as per specifications. Specification No. KBS 13.2.2 / 13.3 Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Nos	4.00		
	Total		**4.00**	**189.00**	**756.00**
	Providing and fixing C.P. brass towel rail 600 mm length, 20mm dia with C.P. brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labor complete as per specifications Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Unit	4.00		
	Total		**4.00**	**735.00**	**2940.00**
	Providing and fixing in position brass stop cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of Jointments with all leads complete as per specifications. Specification No. KBS 13.2.2 / 13.3 Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	4.00		
	Total		**4.00**	**154.00**	**616.00**
	Providing and fixing CI Nahani Trap of approved make conforming to ISI specifications and construction of cistern in CC 1:2:4 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot) Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Each	5.00		
	Total		**5.00**	**311.00**	**1555.00**
	Earth work excavation for foundation of buildings, water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5 Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17	Cum	87.00		
	Total		**87.00**	**326.00**	**28362.00**
	Providing and fixing chlorinated poly veny chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete.(Internal work exposed on wall)	Mtr			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17		75.00			
	Total		75.00	171.00	12825.00
Providing and fixing chlorinated poly veny chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and testing of works complete.(Internal work exposed on wall)	Mtr				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17		65.00			
	Total		65.00	214.00	13910.00
Providing and fixing chlorinated poly veny chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing, this including jointing of pipes and fittings with one step CPVC solvent cement and testing of works complete.(Internal work exposed on wall)	Mtr				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17		65.00			
	Total		65.00	277.00	18005.00
KSRB 13-6.2.6: Providing and fixing in position brass gate valve with C.I. wheel of approved qualit (screwed end) 65mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. KBS 13.2.6 / 13.3	Nos				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17		4.00			
	Total		4.00	2294.00	9176.00
KSRB 13-6 4.1: providing and fixing in position brass ball valve high or low pressure with plastic float of approved quality 15mm nominal bore including of cost of all materials, labour and HOM of equipments with all leads complete as per specifications.	Each				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17		4.00			
	Total		4.00	560.00	2240.00
Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer black of blue and inner white layer of approved quality and make conforming to ISI / ISO / SSI specifications, No.	Ltr				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		2000.00			

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17

	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 Kgf/sq.cm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all labour charges, HOM of acquirements and testing complete as per specifications.	Mtr	2000.00	7.00	14000.00
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over			60.00	
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	KSRR 12-8.1 : Constructing brick masonry inspection chamber Total			60.00	473.00	28380.00
	455x610mm, and 450mm depth, (clear inside dimension) for single pipeline using table moulded non-modular bricks of class designation 35 in cement mortar 1:5, C.I. cover with frame (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 58kg (weight of cover 23kg and weight of frame 15kg) R.C.C. top slab with cement concrete 1:2:4 mix 20mm and downsize granite metal, foundation concrete 1:5:10 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specificationsNo.KBS Page No. 73/ Item No. 11.50	Nos			
	Upto- 600x600mm, and 450 depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 35 in cement mortar 1:5 C.I cover with frame (light duty) 600x600mm,				
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over			4.00	
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17			7.00	
	Total			11.00	
	Schedule B			4.00	
	Upto 125 %			5.00	7705.00	38525.00
	Above 125 %			6.00	7848.10	47088.62
	Providing and fixing to wall, ceiling and floor, medium density polyethylene pipes 6.00KGf/sq.cm. working pressure 20mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling an floor including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Specification No. 13.2.15.1 / 13.9 for internal water supply connection	Mtr			
	Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over			25.00	
	Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17				
	Total			25.00	606.00	15150.00

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BRUHAT BANGALORE MAHANAGARA PALIKE

Project:: Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No.17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

KSRB 2.2.1 Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches leaving the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specifications Specification No KBS 2.1(a)/2.3.5. (P.No.5, I No.2.3 of PW,P&IWTD S.R 2018-19)	Cum				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		716.16			
Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17					
Total		**716.16**	**326.00**	**233466.53**	
KSRRB M200-15 1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications, KSRRB M20Q-17.1. -d o - v) Steel work in all types of Sections upto Tonne a Height of 5 m above plinth level including Cutting of Rivet. - A. Including dismembering."	Tonn				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		50.00			
Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17					
Total		**50.00**	**2065.00**	**103250.00**	
KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix M-10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates at 0.892cum and fine aggregates at 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I No.4.2 of PW,P&IWTD S.R 2018-19)	Cum				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		10.69			
Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17					
Total		**10.69**	**5666.00**	**60580.87**	
KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 (P.No.15, I No.4.28 of PW,P&IWTD SR 2018-19)	Sqm				
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		52.80			
Widenning and Improvements to Road from BEL Circle to Mathikere flyover in Ward no:17					
Total		**52.80**	**281.00**	**14836.80**	
KSRB 4-6.5: Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2. (P.No.16, I No.4.32 of PW,P&IWTD SR 2018-19)	Sqm				

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Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple In Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Rover in Ward no:17		43.89		
KSRB : 4.2.8. Providing and laying in position reinforced cement concrete of design mix M 20 with OPC cement @ 320kgs. with 20mm nom. size graded granite metal coarse aggregates @ 0.876cum and fine aggregates @ 0.459cum, with superplastisiser @ 3lits conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C beams, columns of all sizes in foundation plinth and superstructure ground floor and up to roof slabs, staircase, lintels, columns, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Speceification No. KBS 4.1,4.6. (P.No.14, I.No 4.13 of PH, PAWTD S.R 2018-19)	Cum	43.89	497.00	21813.33
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Rover in Ward no:17		25.44		
KSRB : 4.9.2. Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position and binding and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (P.No.17, I.No.4.46.2 of PW, PAWTD SR 2018-19)	Tonne	25.44	6427.00	163522.15
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Rover in Ward no:17		9.80		
KSRRB 300- Scarifying the surface and dressing KSRRB 300-44: Scarifying top bituminous surface or surface dressing or premix carpet including picking up scarified materials, stacking of old serviceable materials by manual means including cost of all labour charges complete as per specifications. MORTH chapter 3, (P.No.147, I.No.19.50 of PW, PAWTD S.R 2018-19)	Sqm	9.80	70258.00	688528.40
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over Widening and Improvements to Road from BEL Circle to Mathikere Rover in Ward no:17		595.00		
KSRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PH PAWTD S.R 2018-19)	Cum	595.00	87.00	51765.00

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Project:- Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over

ABSTRACT ESTIMATION-1

Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		148.75		
Widenning and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17				
Total		148.75	2059.00	306276.25
Rough Bench Made out of Sadrahallii grey stone with hand support with machine cutting top slab with line finishing with ARCH desgin neatly curved and fixing with 150mm slab 150x45x150(Approved Data Rate)	Nos	12.00		
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over				
Widenning and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17				
Total		12.00	10605.00	127260.00
KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with super plasticisers @ 3lts conforming to IS 9103-1999 reafirmed -2008, machine mixed concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation for footings pedastals retaining walls, return walls, walls (any thickness) including attached plasters, columnspillars, posts, struts, buttresses, bed blocks anchor blocks & plinths etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No KBS 4.1,4.6, No. KBS 4.1,4.6, (P.No. 13, I.No.4.11 of PW,P&IWTD SR 2018-19)	Cum			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		120.51		
Widenning and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17				
Total		120.51	6173.00	743908.23
KSRB 14.6-1 : Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufactures of blocks of approved size , shape and colour with a minimum compressive strength of 281kgs per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour, curing complete as per specifications. (P.No 101, I.No.14.7 of PW, P&IWTD SR 2018-19)	Sqm			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over		640.00		
Widenning and Improvements to Road from BEL Circle to Mathikere Flyover in Ward no:17				
Total		640.00	1211.00	775040.00
Providing and fixing granite name board fixed in cement morter to wall The board shall be fixed as per the drawing and at the place indicated by the engineer in charge of the work the cost includes bare cost of all materials, scaffolding,transportation charges, fixing charges, labour HOM Etc (Qutation Rate)	Sqm			
Construction of Arch and Providing Interlocking Tiles In Front of Sai Baba Temple And Construction of RCC Roof for Ramp Near Ganesha Temple in Ward No 17 & Widening and Improvements to Road From BEL Circle to Mattikere Fly Over	L/S	2.00		

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